

THE PORT AUTHORITY
OF NY & NJ

CONFORMED DRAWING
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No. Date Revision Approved
Engineering Department
Design Divisions

The
World
Trade
Center

STANDBY POWER
5 WORLD TRADE CENTER

ELECTRICAL

GENERATOR BULKHEAD
POWER PLAN

This drawing subject to conditions in contract
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W.A.P.
Designed by Drawn by Check by

Date 11/17/97 Scale AS NOTED

Contract Number WTC-045.071 Drawing Number E2-01

NOTE:
1. VERIFY EXACT LOCATION OF BATTERY CHARGER WITH
GENERATOR MANUFACTURER APPROVED INSTALLATION
DRAWINGS.



PANEL DESIGNATION: ELP

SERVICE: 120Y/208 VOLTS 3 PHASE 4 WIRE W/GRD. BUS

MAINS: 225 AMPS WITH 125 AMP MAIN BKR. 42 POLES

LOCATION: SWTC ROOF GENERATOR BULKHEAD

SERVICE TO:	CONNL. KVA			BRANCH CIRCUITS	CONNL. KVA			SERVICE TO:
	A	B	C		A	B	C	
GEN. #1 GENERATOR HEATER	0.75	15A	1	2	20A	1.2	GEN. #1 BATTERY CHARGER	
GEN. #2 GENERATOR HEATER	0.75	15A	3	4	20A	1.2	GEN. #2 BATTERY CHARGER	
ROOM UNIT HEATERS (401/8 WPCA)	1.0	20A	5	6	20A	1.0	ROOM UNIT HEATERS (401/8 WPCA)	
BUDG. SOLDA 1/2, DP	-	1.0	20A	7	8	20A	1.0	ROOM UNIT HEATERS (401/8 WPCA)
PNEUMATIC CONTROL PH.	-	1.2	15A	9	10	15A	0.7	CONVENIENCE RECEPTACLES
CONVENIENCE RECEPTACLES	1.0	1.0	15A	11	12	15A	0.7	CONVENIENCE RECEPTACLES
RECEPTACLE AT BOOTH (PC)	1.0	1.0	15A	13	14	30A	3.6	WELDING RECEPTACLE
CONVENIENCE RECEPTACLES	1.0	1.0	15A	15	16	1	3.6	
SYSTEM BATTERY CHARGER	2.0	2.0	20A	19	20	15A	0.75	SPARE (FUTURE GEN#5 HEATER)
SPARE (FUTURE GEN#5 HEATER)	0.75	0.75	15A	21	22	15A	0.75	SPARE (FUTURE GEN#6 HEATER)
SPARE (FUTURE GEN#6 HEATER)	-	0.75	15A	23	24	15A	0.75	SPARE (FUTURE GEN#7 BATT. CHGR)
SPARE (FUTURE GEN#7 BATT. CHGR)	1.2	1.2	15A	25	26	15A	1.2	SPARE (FUTURE GEN#8 BATT. CHGR)
SPARE (FUTURE GEN#8 BATT. CHGR)	1.2	1.2	15A	27	28	15A	0.75	OUTSIDE LITS VIA TIME SW CONTROL
SECURITY LOCAL CONTROL PH.	1.2	1.2	15A	29	30	15A	0.75	SPARE
CONTROL BOOTH CONDENSER	1.2	1.2	20A	31	32	15A	1.3	CONTROL BOOTH EVAP. & REHEAT
		1.2	1	33	34	1	1.3	
SPARE	-	-	35	36	-	-	SPARE	
	-	-	37	38	-	-		
	-	-	39	40	-	-		
	-	-	41	42	-	-		

PANEL DESIGNATION: PPR

LOCATION: SWTC ROOF GENERATOR BULKHEAD

SERVICE: 480Y/277 VOLTS 3 PHASE 4 WIRE W/GRD. BUS

MAINS: 400 AMPS WITH 225 AMP MAIN BKR. 42 POLES

SERVICE TO:	CONNL. KVA			BRANCH CIRCUITS	CONNL. KVA			SERVICE TO:
	A	B	C		A	B	C	
GEN. #1 JACKET WATER HEATER	3.0		20A 1	2	20A	3.0		GEN. #1 JACKET WATER HEATER
		10	1	3			30	
GEN. #2 JACKET WATER HEATER			3.0 20A 5	4	20A	3.0		GEN. #2 JACKET WATER HEATER
		3.0	1	5		3.0		
PANEL "ELP" VIA SONYA TXR		10.0	100A 7	10	10A	7.0		PANEL "ELP" LIGHTING
			10.0 11	12		7.0		
FAN EF-27 SHP		10.0	1	13	14	7.0		
		2.5	20A 15	16	15A	0.4		FAN EF-1 SHP
		2.5	1	17	18		0.4	
SPARE(FUTURE G#3 JACKET WTR)			3.0 20A 21	22	20A	3.0		SPARE(FUTURE G#3 JACKET WTR)
		3.0	1	23		3.0		
SPARE(FUTURE G#4 JACKET WTR)			3.0 20A 25	26	20A	3.0		SPARE(FUTURE G#4 JACKET WTR)
		3.0	1	27	28		3.0	
DUPLEX FUEL OIL PUMP 2HP			30A 29	30	30A			DUPLEX FUEL OIL PUMP 2HP
			1	31	32			
			1	33	34			
SPARE			20A 35	36	20A			SPARE
			20A 37	38	20A			
			20A 39	40	20A			
			20A 41	42	20A			

PANEL DESIGNATION: ELP LOCATION: SWTC ROOF GENERATOR BULKHEAD

SERVICE: 277/480 VOLTS 3 PHASE 4 WIRE W/GRD. BUS

MAINS: 100 AMPS WITH 30 AMP MAIN BKR. 12 POLES

SERVICE TO:	CONNL. KVA			BRANCH CIRCUITS	CONNL. KVA			SERVICE TO:
	A	B	C		A	B	C	
GEN. BULKHEAD LTC	1.2	15A	1	2	15A	1.4	GEN. BULKHEAD LTC	
GEN. BULKHEAD LTC	1.2	15A	3	4	15A	1.4	GEN. BULKHEAD LTC	
SPARE	1.2	15A	5	6	15A	1.4	SPARE	
"	1.2	15A	7	8	15A	1.4	"	
"	1.2	15A	9	10	15A	1.4	"	
"	1.2	15A	11	12	15A	1.4	"	

5 WTC STANDBY GENERATOR
BULKHEAD-POWER PLAN

